

FFFFFFFFFFF	111	111	AAAAAAA
FFFFFFFFFFF	111	111	AAAAAAA
FFFFFFFFFFF	111	111	AAAAAAA
FFF	111111	111111	AAA
FFF	111111	111111	AAA
FFF	111111	111111	AAA
FFF	111	111	AAA
FFF	111	111	AAA
FFF	111	111	AAA
FFF	111	111	AAA
FFF	111	111	AAA
FFF	111	111	AAA
FFF	111	111	AAA
FFF	111	111	AAA
FFF	111	111	AAA
FFF	111	111	AAA
FFF	111	111	AAA
FFF	111	111	AAA
FFF	111	111	AAA
FFF	111111111	111111111	AAA
FFF	111111111	111111111	AAA
FFF	111111111	111111111	AAA

\*\*FILE\*\* ID\*\*GETF1B

L 11

GE 1  
V04

GGGGGGGGGG	EEEEEEEEE	TTTTTTTTTT	FFFFFFFFF	IIIIIIII	BBBBBBBB
GGGGGGGGGG	EEEEEEEEE	TTTTTTTTTT	FFFFFFFFF	IIIIIIII	BBBBBBBB
GG	EE	TT	FF	II	BB
GG	EE	TT	FF	II	BB
GG	EE	TT	FF	II	BB
GG	EE	TT	FF	II	BB
GG	EEEEEEE	TT	FFFFFFF	II	BBBBBBB
GG	EEEEEEE	TT	FFFFFFF	II	BBBBBBB
GG	GGGGGG	EE	FF	II	BB
GG	GGGGGG	EE	FF	II	BB
GG	GG	EE	FF	II	BB
GG	GG	EE	FF	II	BB
GGGGGG	EEEEEEE	TT	FF	IIIIII	BBBBBBB
GGGGGG	EEEEEEE	TT	FF	IIIIII	BBBBBBB

  

LL	IIIIII	SSSSSSSS
LL	IIIIII	SSSSSSSS
LL	II	SS
LL	II	SS
LL	II	SS
LL	II	SSSSSS
LL	II	SSSSSS
LL	II	SS
LL	II	SS
LL	II	SS
LLLLLLLLLL	IIIIII	SSSSSSSS
LLLLLLLLLL	IIIIII	SSSSSSSS

```
1 0001 0 MODULE GETF1B (
2 0002 0 LANGUAGE (BLISS32),
3 0003 0 IDENT = 'V04-000'
4 0004 0 )
5 0005 1 BEGIN
6 0006 1
7 0007 1 ****
8 0008 1 ****
9 0009 1 ****
10 0010 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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26 0026 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
27 0027 1 *
28 0028 1 *
29 0029 1 ****
30 0030 1 *
31 0031 1 ++
32 0032 1
33 0033 1 FACILITY: F11ACP Structure Level 1
34 0034 1
35 0035 1 ABSTRACT:
36 0036 1
37 0037 1 This routine obtains the address of the FIB for this operation.
38 0038 1
39 0039 1 ENVIRONMENT:
40 0040 1
41 0041 1 STARLET operating system, including privileged system services
42 0042 1 and internal exec routines.
43 0043 1
44 0044 1 --
45 0045 1
46 0046 1
47 0047 1 AUTHOR: Andrew C. Goldstein, CREATION DATE: 7-Jan-1977 01:02
48 0048 1
49 0049 1 MODIFIED BY:
50 0050 1
51 0051 1 V03-001 LMP0219 L. Mark Pilant, 24-Mar-1984 23:15
52 0052 1 Preset FIBSL_ACL_STATUS to SSS_NORMAL.
53 0053 1
54 0054 1 A0100 ACG0001 Andrew C. Goldstein, 10-Oct-1978 20:01
55 0055 1 Previous revision history moved to F11A.REV
56 0056 1
57 0057 1 **
```

GETF1B  
V04-000

N 11  
16-Sep-1984 01:05:44  
14-Sep-1984 12:29:37 VAX-11 Bliss-32 v4.0-742  
DISKS\$VMSMASTER:[F11A.SRC]GETF1B.B32;1 Page 2  
GE1  
V04

: 58 0058 1  
: 59 0059 1  
: 60 0060 1 LIBRARY 'SYS\$LIBRARY:LIB.L32';  
: 61 0061 1 REQUIRE 'SRC\$:FCPDEF.B32';

000

```
63 0376 1 GLOBAL ROUTINE GET_FIB (ABD) =
64 0377 1
65 0378 1 !++
66 0379 1
67 0380 1 FUNCTIONAL DESCRIPTION:
68 0381 1
69 0382 1 This routine obtains the address of the FIB for this operation.
70 0383 1 It copies the FIB from the buffer packet into local storage
71 0384 1 and zero extends it to maximum length.
72 0385 1
73 0386 1 CALLING SEQUENCE:
74 0387 1     GET_FIB (ARG1)
75 0388 1
76 0389 1 INPUT PARAMETERS:
77 0390 1     ARG1: buffer descriptor list
78 0391 1
79 0392 1 IMPLICIT INPUTS:
80 0393 1     CURRENT_WINDOW: address of user's window or 0
81 0394 1     IO_PACKET: address of user's I/O packet
82 0395 1
83 0396 1 OUTPUT PARAMETERS:
84 0397 1     NONE
85 0398 1
86 0399 1 IMPLICIT OUTPUTS:
87 0400 1     NONE
88 0401 1
89 0402 1 ROUTINE VALUE:
90 0403 1     address of FIB
91 0404 1
92 0405 1 SIDE EFFECTS:
93 0406 1     file ID may be written into FIB
94 0407 1     channel window pointer write-back inhibited
95 0408 1     result string buffers zeroed
96 0409 1
97 0410 1 !--
98 0411 1
99 0412 2 BEGIN
100 0413 2
101 0414 2 MAP
102 0415 2     ABD      : REF BBLOCKVECTOR [,ABD$C_LENGTH];
103 0416 2                   ! buffer descriptors
104 0417 2
105 0418 2 LOCAL
106 0419 2     FCB      : REF BBLOCK,    ! FCB of file
107 0420 2     FIBL;    : REF BBLOCK,    ! length of user FIB
108 0421 2
109 0422 2 EXTERNAL
110 0423 2     LOCAL_FIB : BBLOCK,    ! internal copy of user FIB
111 0424 2     IO_PACKET  : REF BBLOCK,  ! I/O packet of this operation
112 0425 2     PRIMARY_FCB : REF BBLOCK, ! FCB of current file
113 0426 2     CURRENT_FIB  : REF BBLOCK, ! pointer to current FIB in use
114 0427 2     CURRENT_WINDOW : REF BBLOCK; ! user's window
115 0428 2
116 0429 2
117 0430 2 ! Get the length of the user-supplied FIB. If there is a window,
118 0431 2 and there is no user FIB, use the file ID from
119 0432 2 the window's FCB. Also use the FCB's file ID if the file number
```

```
120 0433 2 ! in the user FIB is zero.
121 0434 2 !
122 0435 2
123 0436 2 FIBL = .ABD[ABD$C_FIB, ABD$W_COUNT];
124 0437 2
125 0438 2 CH$COPY (.FIBL,
126 0439 2     .ABD[ABD$C_FIB, ABD$W_TEXT] + ABD[ABD$C_FIB, ABD$W_TEXT] + 1,
127 0440 2     0
128 0441 2     FIBSC_LENGTH,
129 0442 2     LOCAL_FIB);
130 0443 2 CURRENT_FIB = LOCAL_FIB;
131 0444 2
132 0445 2 LOCAL_FIB[FIBSL_ACL_STATUS] = SSS_NORMAL; ! Preset to success
133 0446 2
134 0447 2 IF .CURRENT_WINDOW NEQ 0
135 0448 2 THEN
136 0449 3 BEGIN
137 0450 3     FCB = .CURRENT_WINDOW[WCB$L_FCB];
138 0451 3     IF .LOCAL_FIB[FIB$W_FID_NUM] EQL 0
139 0452 3     THEN CH$MOVE (FIB$S_FID, FCB[FCB$W_FID], LOCAL_FIB[FIB$W_FID]);
140 0453 3
141 0454 3 ! If the file ID in the FIB does not match that in the FCB, this operation
142 0455 3 is not on the open file; clear the FCB and window addresses (except in
143 0456 3 the case of a DEACCESS, in which we force the file ID to that of the open
144 0457 3 file and signal an error).
145 0458 3
146 0459 3
147 0460 3 IF .LOCAL_FIB[FIB$W_FID_NUM] NEQ .FCB[FCB$W_FID_NUM]
148 0461 3 OR .LOCAL_FIB[FIB$W_FID_RVN] NEQ .FCB[FCB$W_FID_RVN]
149 0462 3 THEN
150 0463 4 BEGIN
151 0464 4     IF .IO_PACKET[IRP$V_FCODE] EQL IOS_DEACCESS
152 0465 4     THEN
153 0466 5 BEGIN
154 0467 5     CH$MOVE (FIB$S_FID, FCB[FCB$W_FID], LOCAL_FIB[FIB$W_FID]);
155 0468 5     ERR_STATUS (SSS_BADPARAM);
156 0469 5 END
157 0470 4 ELSE
158 0471 5 BEGIN
159 0472 5     CURRENT_WINDOW = 0;
160 0473 5     PRIMARY_FCB = 0;
161 0474 4     END;
162 0475 3
163 0476 3 END;
164 0477 3
165 0478 3 ! If there is no file open, there must be a minimum FIB.
166 0479 3
167 0480 3
168 0481 2 ELSE
169 0482 2 BEGIN
170 0483 2     IF .FIBL LSS FIBSC_ACCDATA
171 0484 2     THEN ERR_EXIT (SSS_INSFARG);
172 0485 2     END;
173 0486 2
174 0487 2 ! If the directory ID is -1,-1, convert it to 4,4,0 to be compatible with
175 0488 2 ! the old RSX MFD kluge.
176 0489 2
```

```

177      0490 2
178      0491 2 IF .LOCAL_FIB[FIBSW DID NUM] EQL 65535
179      0492 2 AND .LOCAL_FIB[FIBSW DID SEQ] EQL 65535
180      0493 2 THEN
181      0494 3 BEGIN
182      0495 3 LOCAL_FIB[FIBSW DID NUM] = 4;
183      0496 3 LOCAL_FIB[FIBSW DID SEQ] = 4;
184      0497 3 LOCAL_FIB[FIBSW DID RVN] = 0;
185      0498 2 END;
186      0499 2
187      0500 2 RETURN LOCAL_FIB;
188      0501 2
189      0502 1 END;

```

! end of routine GET FIB

.TITLE GETFIB  
.IDENT \V04-000\

.EXTRN LOCAL\_FIB, IO\_PACKET  
.EXTRN PRIMARY\_FCB, CURRENT\_FIB  
.EXTRN CURRENT\_WINDOW, USER\_STATUS

.PSECT SCODE\$ , NOWRT , 2

```
    .ENTRY    GET FIB, Save R2,R3,R4,R5,R6,R7,R8
    MOVAB    USER STATUS, R8
    MOVAB    LOCAL FIB+4, R7
    MOVL    ABD, R0
    MOVZWL  10(R0), FIBL
    MOVAB    8(R0), R1
    MOVZWL  (R1), R0
    MOVS    FIBI, 1(R1)[R0] #0 #64 LOCAL FIB
```

MOVAB LOCAL\_FIB, CURRENT\_FIB  
MOVL #1, LOCAL\_FIB+52  
MOVL CURRENT\_WINDOW, R0

MOVL 24(R0), FCB  
STSW LOCAL\_FIB+4  
BNEQ 18

MOV3 40, 30(FCB), LOCAL\_FIB+4  
CMPW LOCAL\_FIB+4, 36(FCB)  
BNEQ 28

BEQL  
MOVL  
CMPZV 5S 10\_PACKET, R0  
#0, #6, 32(R0), #52

```
MOV C3 #6, 36(FCB), LOCAL
BLBC USR_Status, 5$
MOVW #20, _USER_Status
```

CURRENT\_WINDOW  
PRIMARY\_FCB

CMPL FIBL, #10  
BGEQ 5S

THE BOSTONIAN

---

0114	8F	BF	0007C	CHMU	#276	0484
FFFF	8F	06	A7 B1 00080	RET		
FFFF	8F	08	A7 B1 00081 5\$:	CMPW	LOCAL_FIB+10, #65535	0491
06	A7 00040004	08	A7 B1 00087	BNEQ	6\$	0492
50	FC	A7	0B 12 0008F	CMPW	LOCAL_FIB+12, #65535	0495
0A			0D 00091	BNEQ	6\$	0497
			0A A7 B4 00099	MOVL	#262148, LOCAL_FIB+10	0500
			50	CLRW	LOCAL_FIB+14	0502
			04 000AO	MOVAB	LOCAL_FIB, R0	
				RET		

; Routine Size: 161 bytes, Routine Base: \$CODE\$ + 0000

; 190 0503 1  
; 191 0504 1 END  
; 192 0505 0 ELUDOM

#### PSECT SUMMARY

Name	Bytes	Attributes
\$CODE\$	161	NOVEC,NOWRT, RD, EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

#### Library Statistics

File	-----	Symbols	-----	Pages	Processing
	Total	Loaded	Percent	Mapped	Time
\$_\$255\$DUA2B:[SYSLIB]LIB.L32;1	18619	24	0	1000	00:01.9

#### COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LISS:GETFIB/OBJ=OBJ\$:GETFIB MSRC\$:GETFIB/UPDATE=(ENH\$:GETFIB)

Size: 161 code + 0 data bytes  
 Run Time: 00:07.4  
 Elapsed Time: 00:27.9  
 Lines/CPU Min: 4105  
 Lexemes/CPU-Min: 15105  
 Memory Used: 97 pages  
 Compilation Complete

0165 AH-BT13A-SE  
VAX/VMS V4.0

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